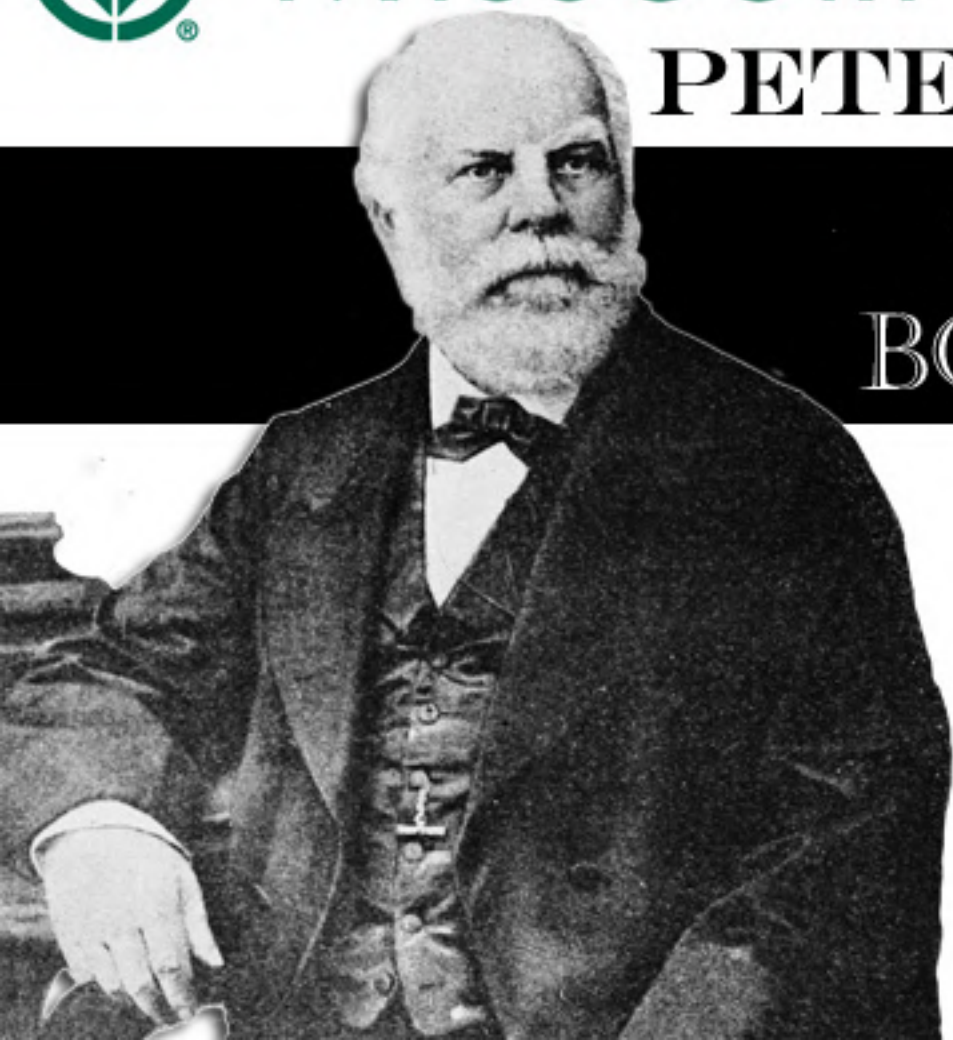


PETER H. RAVEN LIBRARY

GEORGE ENGELMANN
BOTANICAL NOTEBOOKS



Pagination Note:

Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

40
40

Ceae pag 494

C. Phlorocarpa Eng.

C. Polygonorum

petiole transverse perhaps shorter
than in oblongifolia

(Enclosed 361-362)



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved

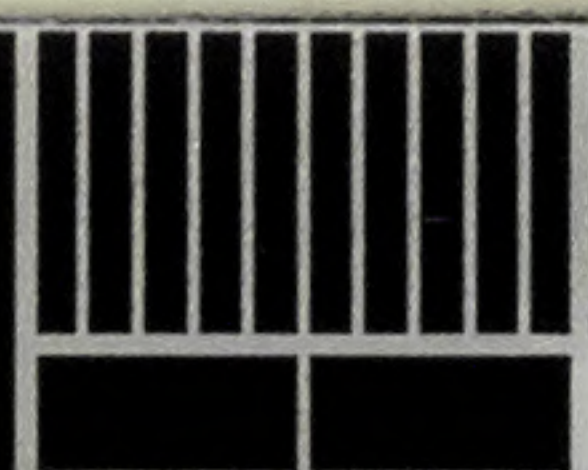


MISSOURI
BOTANICAL
GARDEN

4751

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

1858-1859



0

1

2

3

4

5

6

7

8

9

10

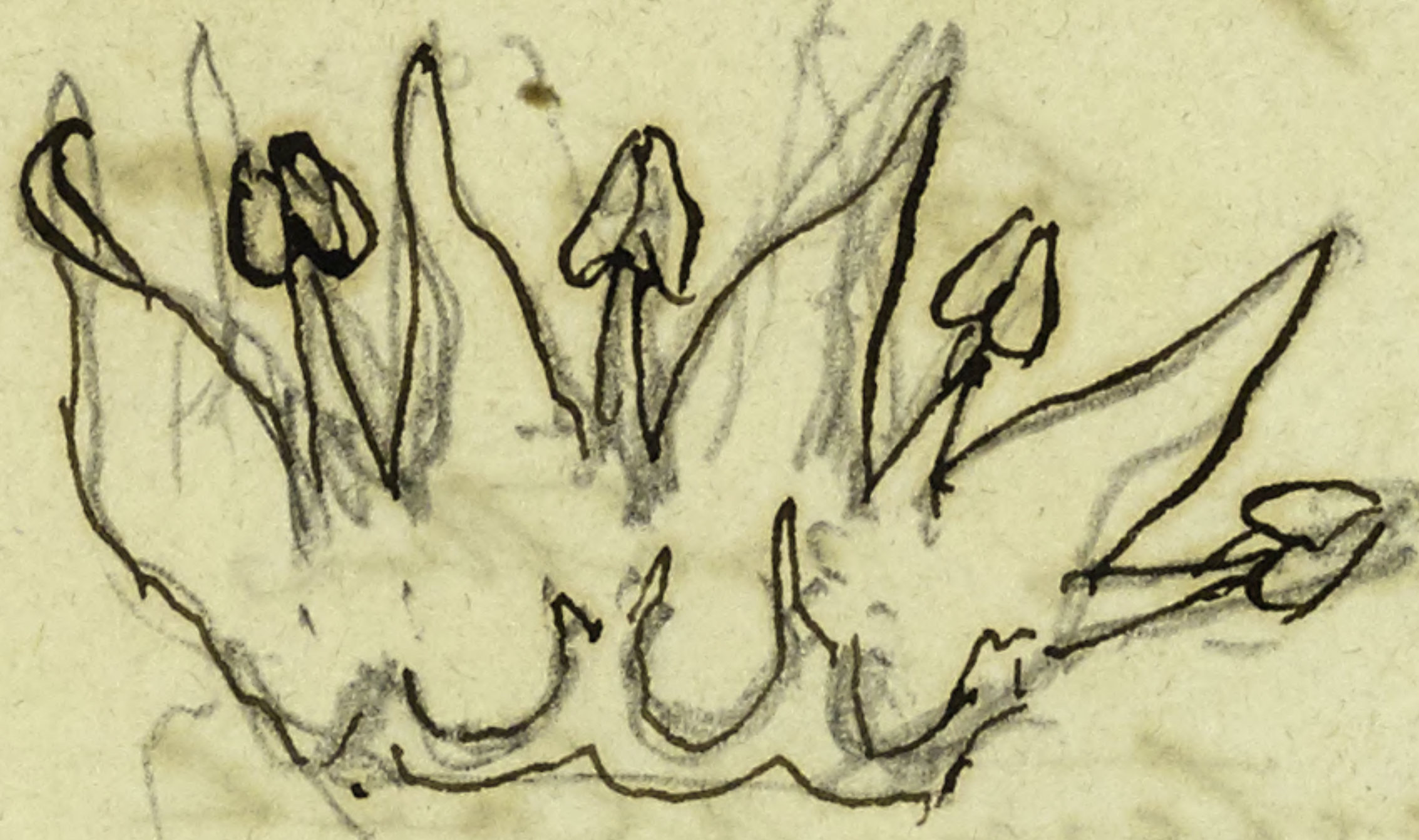
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Jan 1859



Cuscuta chlorocarpa

Delaware

Tatnell

var. floribus 2-4 numeris

lobis calycis ovato-lanceolatis

lobis per ad basin divisis

obtusiusculis; tubum corollae

longe superantibus; laciniis

corollae ovato-lanceolatis tubo corollae

longioribus acutis sive apiculatis

filamentis basi deum valle distinctis

squamis subnullis s. deute non allisve

adnatis

over



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

LEWIS SANDER,

APOTHECARY,

CORNER OF SECOND AND WALNUT STREETS,

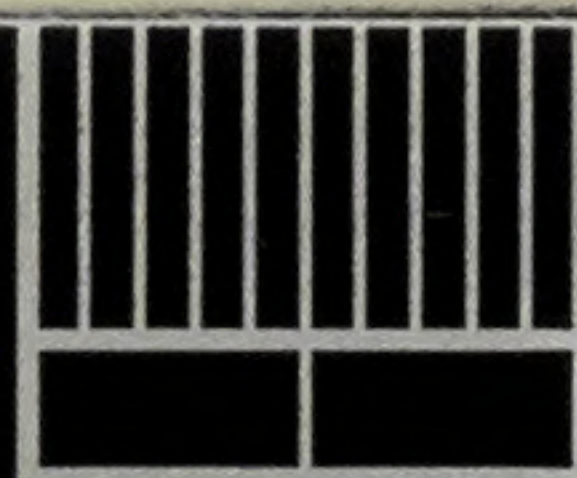
UNDER BARNUM'S HOTEL,

Saint Louis, Mo.

The base of the scales is often
indicated by a ~~connecting~~ member.
flowers rather smaller than
in the western plant, lobes of corolla
more acute and narrow —
approaching to *C. arvensis*!
but almost destitute of scales,
many flowers entirely scale less.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4752



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Curat. Polygonum Cesati in *Linnaea* XXIV. p. 149 (1851)
in *Polygonum Persicaria* near *Novum*. 1847.
Polygonum . . . *Verselli* 1849

flowers 2-lin wide ^{in glomerate} at 3 l. high turbinate pedicels
racemose; larger than in any European species
fl. 5 parted, calyx lobes oblong-lanceolate obtusish
longer than tube of corolla; lobes of corolla ovate acute
(minutissime denticulate) ~~and base~~ corolla at base
of capsule; squamulis bifid. 3 adpressis margin
periliate fimbriatis

Capsule apice dehiscente mentioned



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

MISSOURI
BOTANICAL
GARDEN

4753

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

cc.

Cuscuta Polygonorum

1841

Morris



caps. after
glutinous!

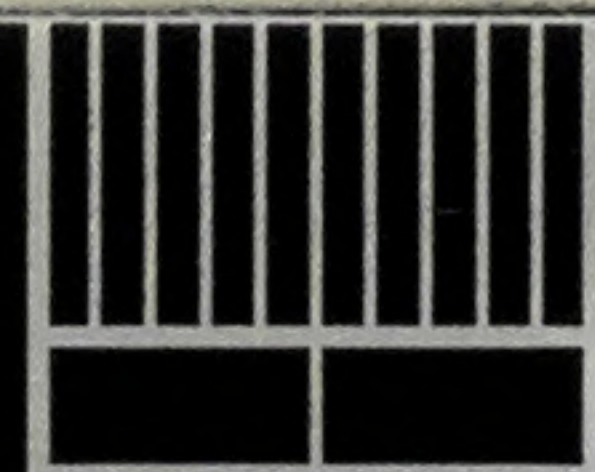
over



1842



0.8



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

no essential difference between these and
glandular ones except the flowers are
smaller and

Seed 0.8 not prominent — nearly
smooth — large hilum

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4754



0

1

2

3

4

5

6

7

8

9

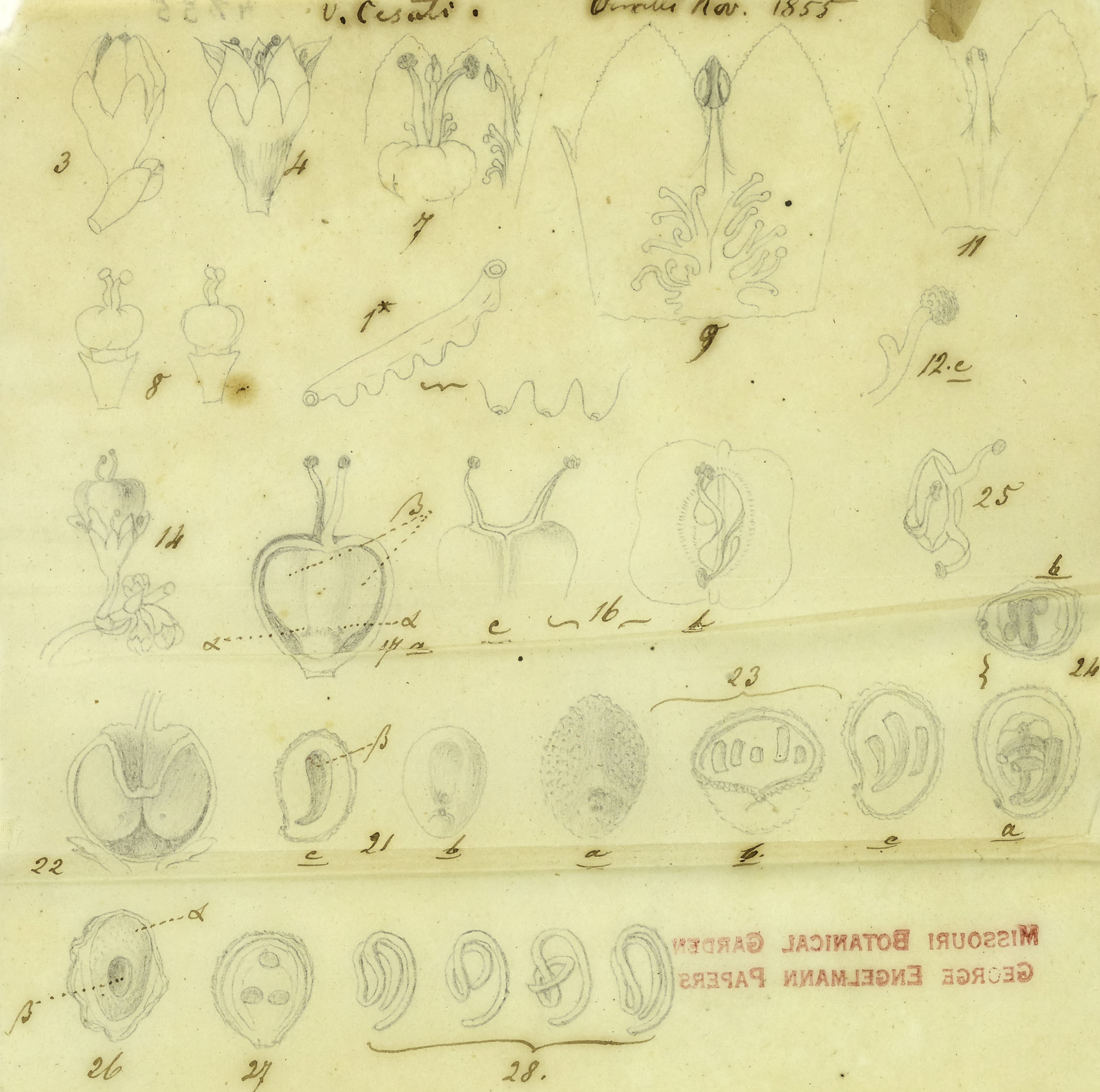
10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



1.* Sepals (calyx) on the stem — 2. Flower bud. — 3. Flower bud. — 4. Flower bud. — 5. Flower bud. — 6. Flower bud. — 7. Flower bud. — 8. Flower bud. — 9. Flower bud. — 10. Flower bud. — 11. Flower bud. — 12. Flower bud. — 13. Flower bud. — 14. Flower bud. — 15. Flower bud. — 16. Flower bud. — 17. Flower bud. — 18. Flower bud. — 19. Flower bud. — 20. Flower bud. — 21. Flower bud. — 22. Flower bud. — 23. Flower bud. — 24. Flower bud. — 25. Flower bud. — 26. Flower bud. — 27. Flower bud. — 28. Flower bud.

1.* Sepals (calyx) on the stem — 2. Flower bud. — 3. Flower bud. — 4. Flower bud. — 5. Flower bud. — 6. Flower bud. — 7. Flower bud. — 8. Flower bud. — 9. Flower bud. — 10. Flower bud. — 11. Flower bud. — 12. Flower bud. — 13. Flower bud. — 14. Flower bud. — 15. Flower bud. — 16. Flower bud. — 17. Flower bud. — 18. Flower bud. — 19. Flower bud. — 20. Flower bud. — 21. Flower bud. — 22. Flower bud. — 23. Flower bud. — 24. Flower bud. — 25. Flower bud. — 26. Flower bud. — 27. Flower bud. — 28. Flower bud.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



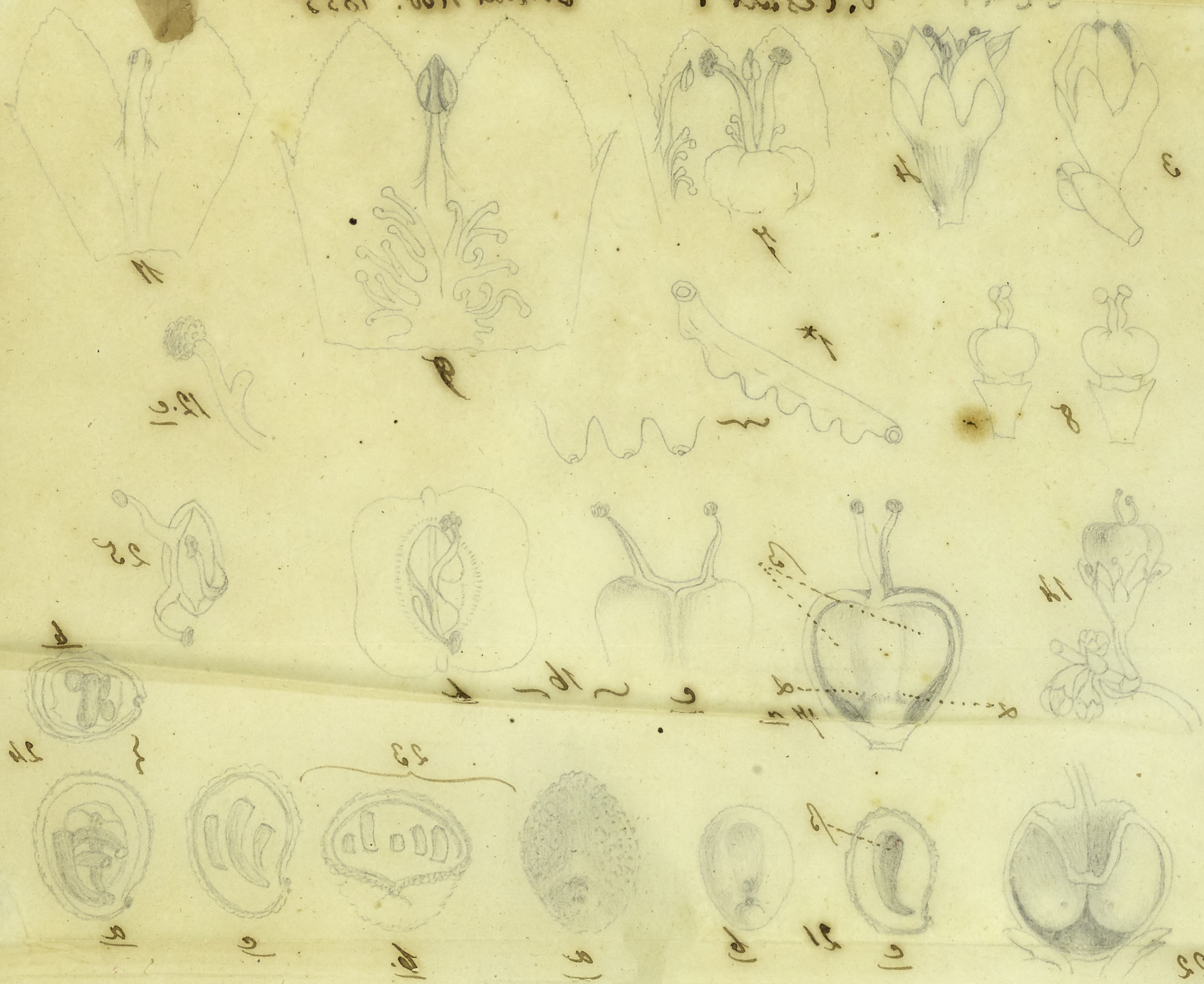
0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



1. *Epilobium (Lamprocarpum) carolinense* - 3. *Epilobium carolinense* - 4. *Epilobium carolinense* - 5. *Epilobium carolinense* - 6. *Epilobium carolinense* - 7. *Epilobium carolinense* - 8. *Epilobium carolinense* - 9. *Epilobium carolinense* - 10. *Epilobium carolinense* - 11. *Epilobium carolinense* - 12. *Epilobium carolinense* - 13. *Epilobium carolinense* - 14. *Epilobium carolinense* - 15. *Epilobium carolinense* - 16. *Epilobium carolinense* - 17. *Epilobium carolinense* - 18. *Epilobium carolinense* - 19. *Epilobium carolinense* - 20. *Epilobium carolinense* - 21. *Epilobium carolinense* - 22. *Epilobium carolinense* - 23. *Epilobium carolinense* - 24. *Epilobium carolinense* - 25. *Epilobium carolinense* - 26. *Epilobium carolinense* - 27. *Epilobium carolinense* - 28. *Epilobium carolinense* - 29. *Epilobium carolinense* - 30. *Epilobium carolinense* - 31. *Epilobium carolinense* - 32. *Epilobium carolinense*

217.C.

C. Ceratiana



a scale



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4756

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Buli May 1857

1.8



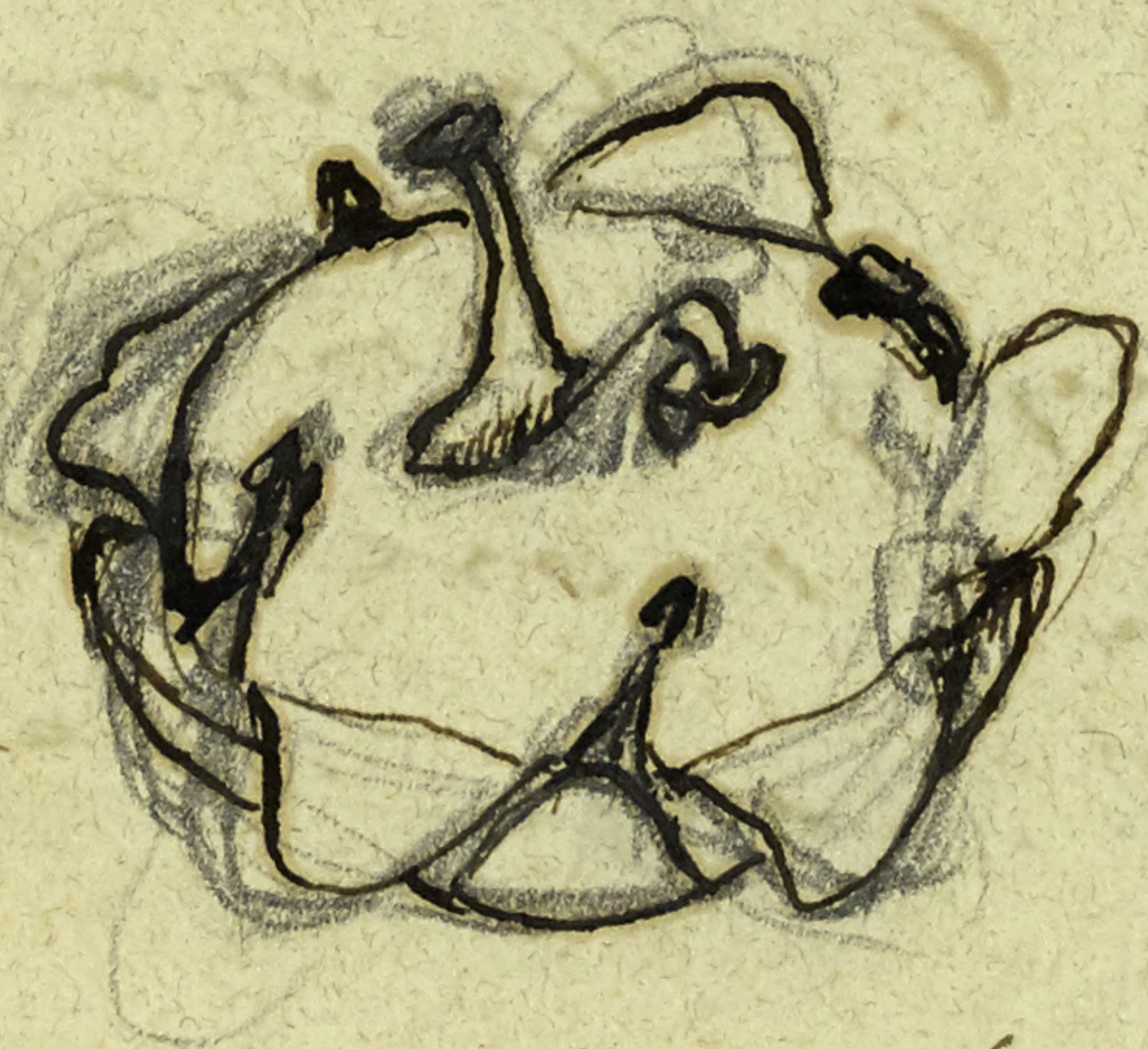
1.3



Cuscuta Cesatiana Bertolon x
C. Plegonorum Cesati VII. 623
 (1850)

Cesati. misit

x Flor Ital



bracteis hyalinis ovatis, obtusis
 floris cyathis glomeratis,
 fl. pedicellatis;
 calycis fere ad basin $(\frac{2}{3})$

5-fidi lobis hyalinis linearibus
 oblongis obtusis; tubo corollae
 multo longioribus; laciniis
 ovatis oblongis obtusis tubo sub late
 campanulatis sub duplo longioribus; petalis; staminibus
 antheris ovatis filamento subulatis multo brevioribus, oblongis, late



capitata sub duplo
 antheris ovatis filamento

subulatis multo brevioribus, oblongis, late

0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



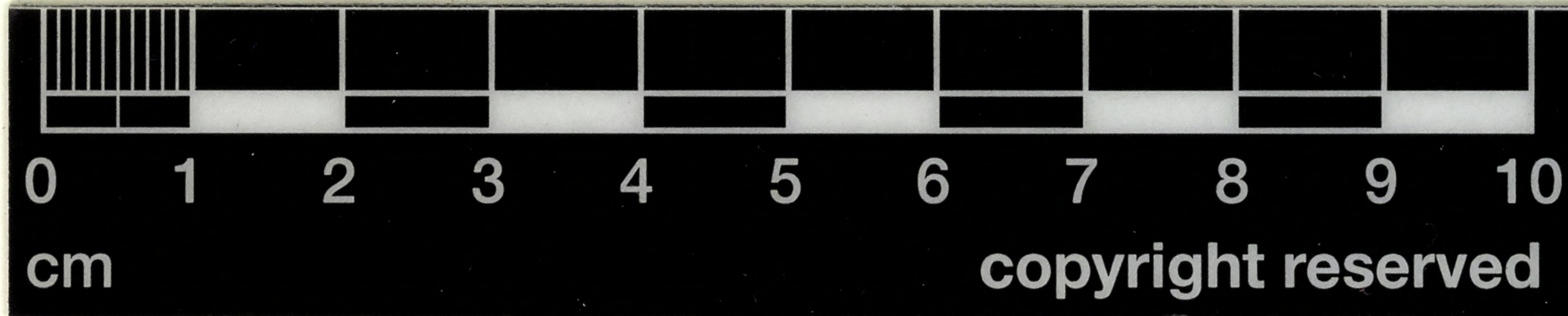
MISSOURI
 BOTANICAL
 GARDEN

connectivis basi filamentis affixis; squamis angustis basi tubi
statis, facies exaristata, profunde ^{subinde} laciniata saepius bifida
stylis, ovum magnum depressum, tubum corollae excedit ~~stylis~~
aequalibus; capsula basi corollae inserta, necdum
stylis
late profunde bifida

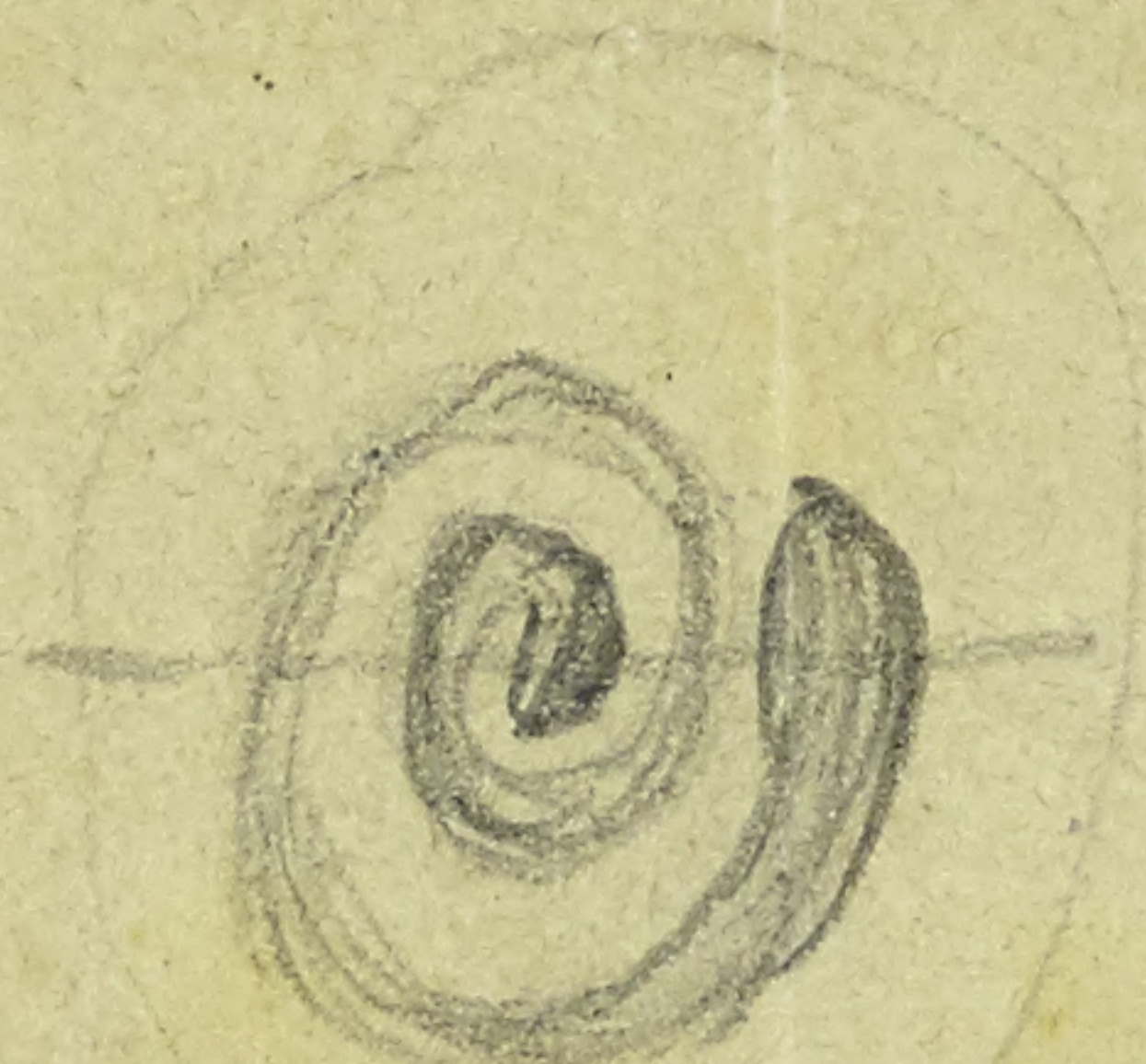
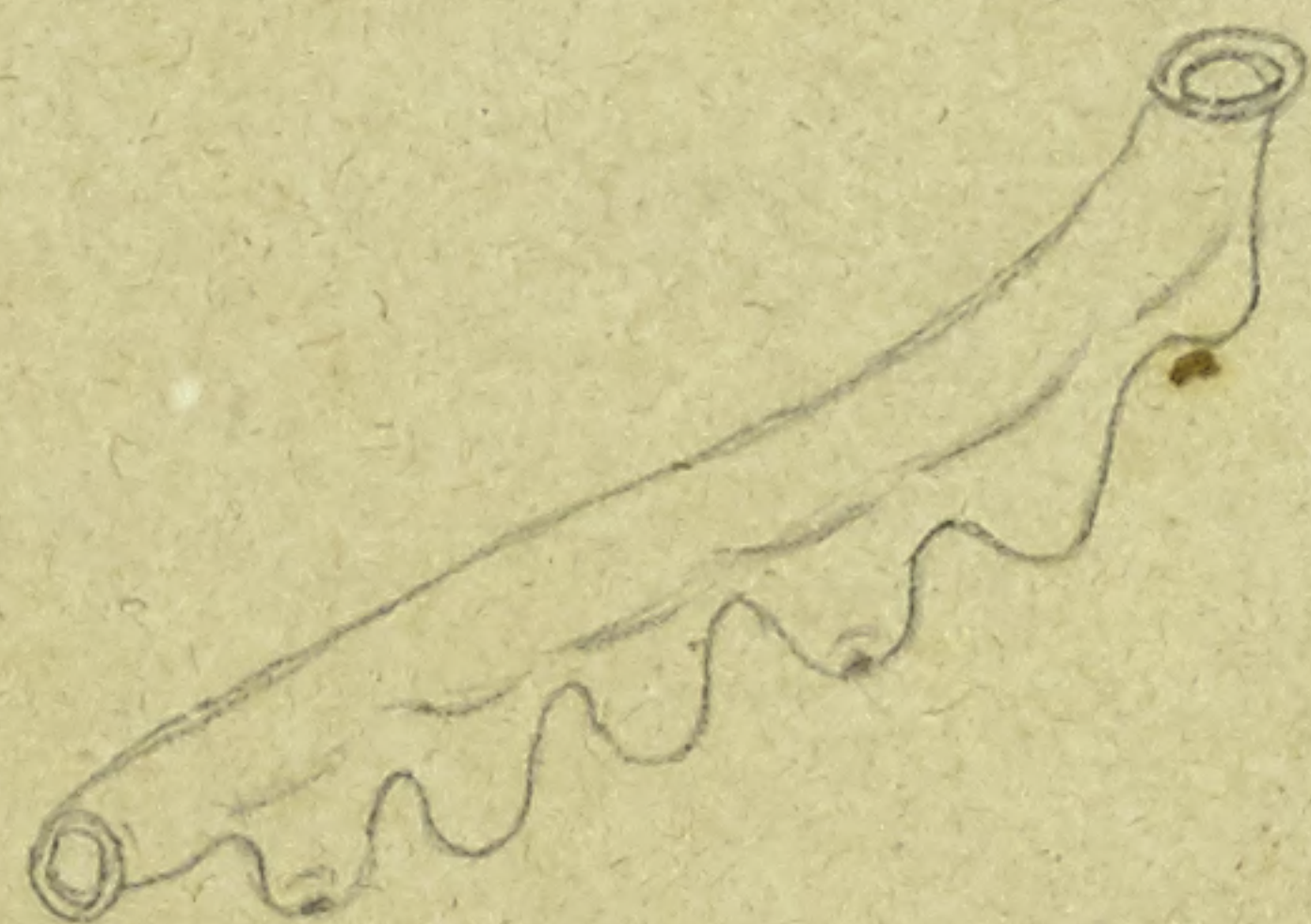
Similar to *C. Polygonum*, but distinguished by the
narrower more deeply divided lobes of calyx, more
deeply divided corolla, more obtuse lobes, small
anthers, more deeply large deeply inserted scales.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4757



MISSOURI
BOTANICAL
GARDEN



Prof Vincent Cesati
Dec. 1853

Fig.

Engelm

e = five embryos (e.
rected) in a single
seed!



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4758

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

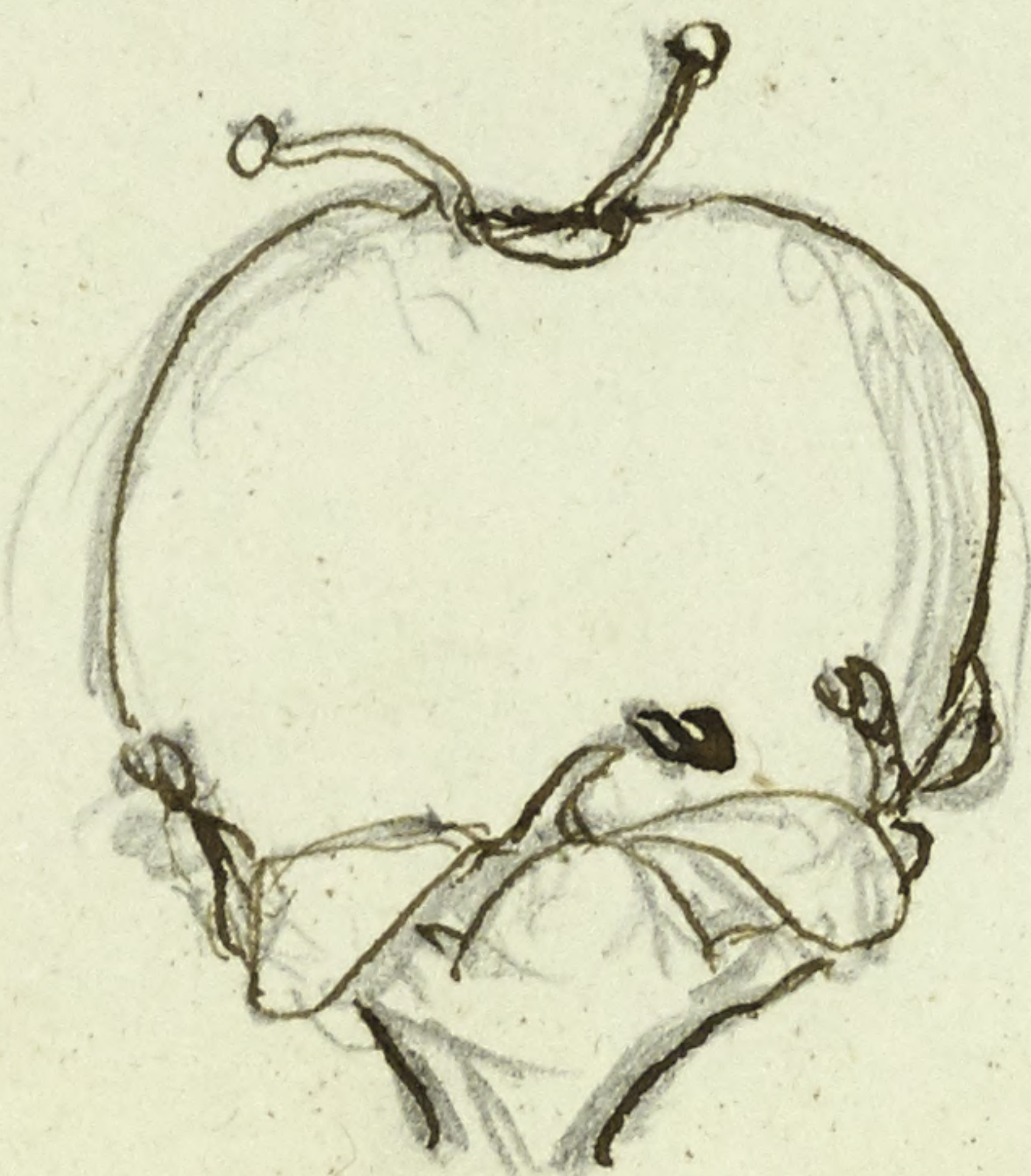
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Paris June 1857



Graminea

Cesatianna

"Caulis aurei, flos carni"

Kashmir

V. Jacquemont No 876

Herb. Mus. Paris.

This can not be distinguished from *C. Cesatianna*, even the size of the flowers and the form of the scales which are partly bifid, is the same; lobes of corolla almost twice as long as tube. This plant therefore

is an Indian plant, which has penetrated westward, and

0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved

MISSOURI
BOTANICAL
GARDEN

may be expected yet in ~~western~~ Asia and eastern Europe

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4759



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

44

Cuscut p 494

C. arvensis Beyr.

pentagon = globular[?] Nutt
virgin.

(Enclosed 363-37)



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4760

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

California

x10

Cuscuta arvensis

A Kellogg & W. G. W. Harford 1868-69

March 13 75

No. 780

near Long Valley

Monterey County

Aug 12 1869



x10

caulis capillares
flos pentameri pedicellati
calycis lobi late ovati acuminati hyalini. lobi corollae aequales;
corollae campanulatae lobis tubo aequilongis erectis, ovato-lanceolatis
acutiusculis inflexis
stamina lobis breviora, anthera oblonga filamentis longioribus
tubo aequilongis. b. fide tubo fere longioribus
ovarii depressi, styli breviores



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

D. Schroeder,
PHARMACEUTIST,

No. 3005 Olive Street,

Near Garrison Avenue,

ST. LOUIS, MO.

No.

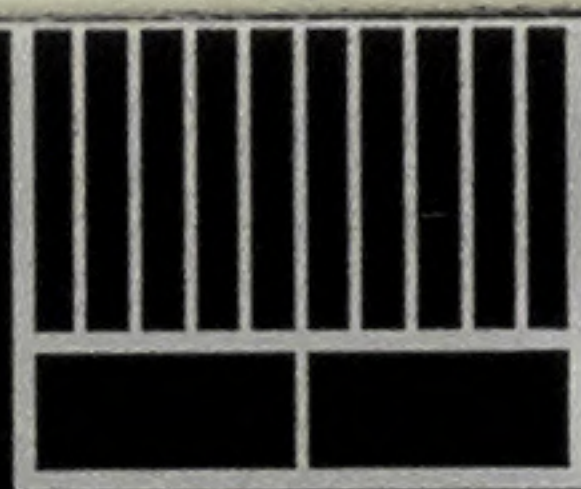
Date,

187

R.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4761



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

New. Aug. 1857

Arceuthobium pulchellum

8068 Curat.

Maranhão Brasil

Gardner 1841

Sphaerocarpus

filamentis
ferebus argutis,
capulis brevibus

floribus in cymulis umbelliformis
sphaeris congestis, breviter petiolatis;
calycis lobis 3 angulatis obtusiusculis
tubo corollae vix brevioribus; laciniis
tubo aequalibus, reflexis, apice acuto
imbricatis; staminibus intra lobos
late subulatis, squamis angustis tubo
ovario magno, stylis ovum brevioribus
exsertis.

I do not see

0
cm

1

2

3

4

5

6

7

8

9

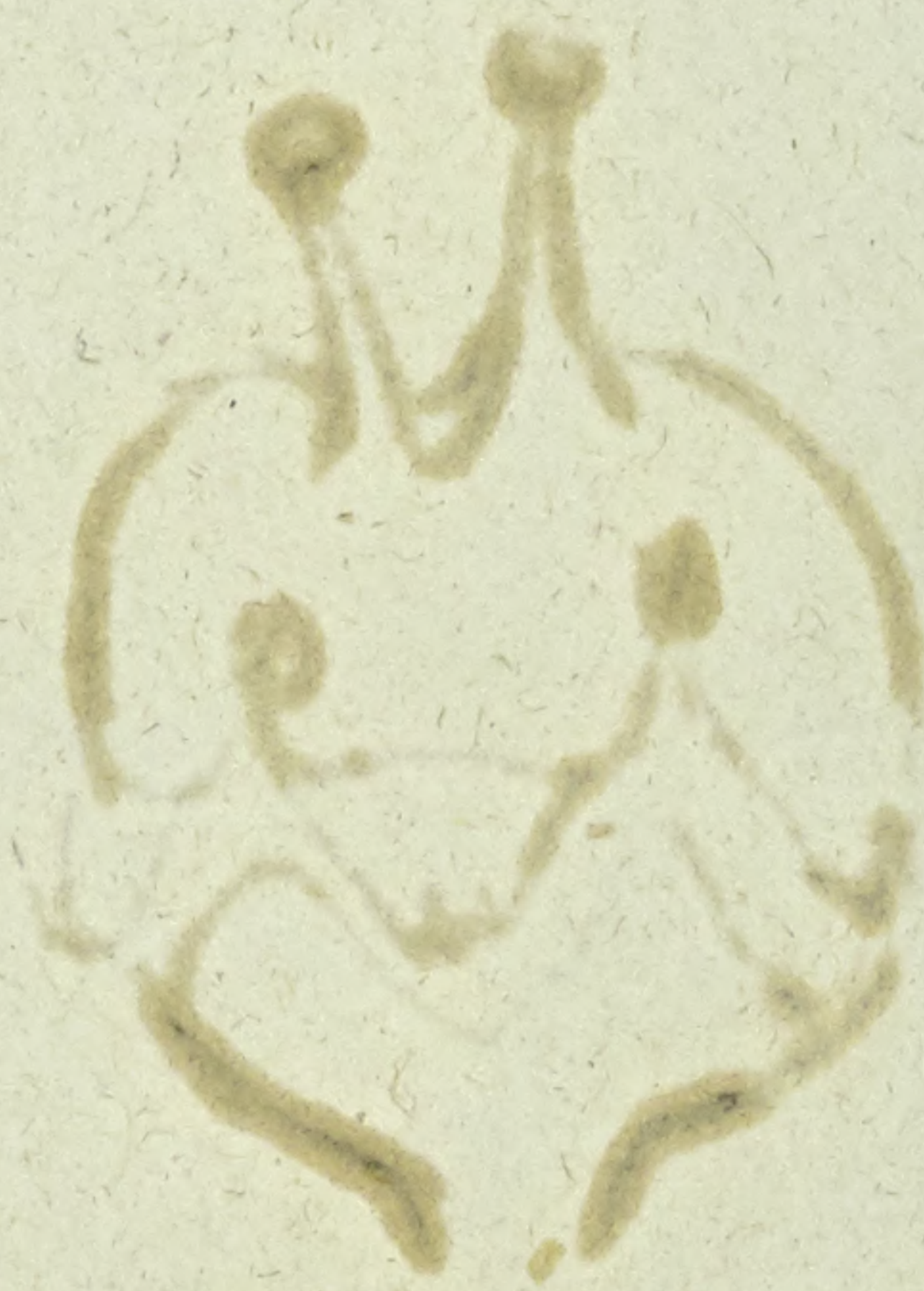
10

copyright reserved

MISSOURI
BOTANICAL
GARDEN

how this plant can be distinguished from
C. arvensis only on micro

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



4762



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved

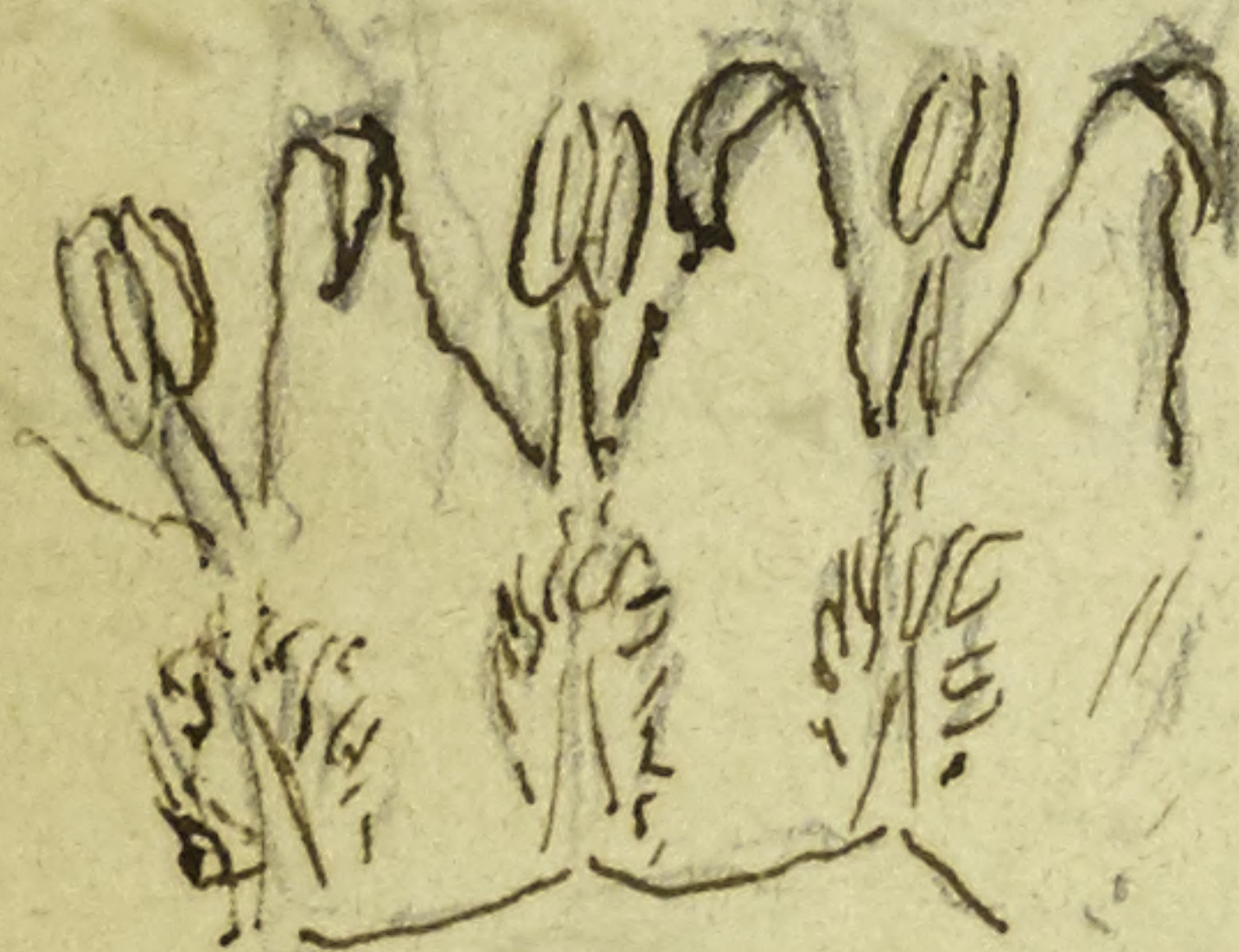


MISSOURI
BOTANICAL
GARDEN



Cuscuta arvensis var. *pulchra*
var. of *verrucosa*

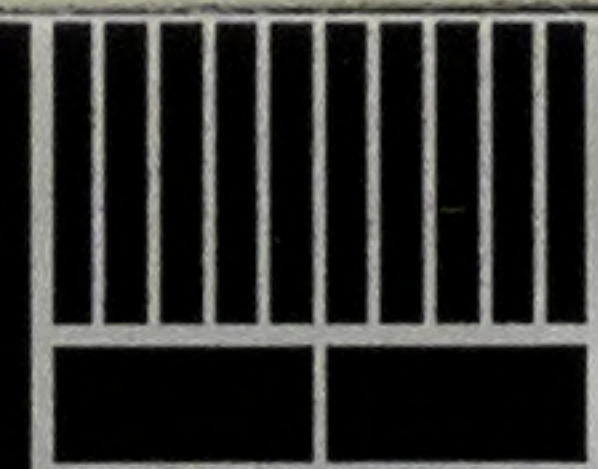
574 Wright
1631 - -



x style filiforme ovario
depresso sublongioribus
exsertis

Caule filiformi glaberrimo.
pericellis, ~~stylis~~ bracteis totisque
floribus granulato pubescentibus
calycis lobis ovatis obtusis tubo
corollae campanulato aequalibus
laciniis tubo longioribus, lanceolatis
acutis, apicibus incurvis; staminibus
brevioribus, antheris filamentis fere
subulatis vix brevioribus; squamis faucibus
mediis adnatis, x capsula e corolla adnata
marcescente exserta depresso baccata
persistente; seminibus supra, ubi nuda
verrucoso-pubescentibus; seminibus ovatis
verrucosis.

ovis



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Perhaps not distinct from *C. verrucosa*, but
 remarkably hispid.

P. No 519

is a form which has the Calyx of *C. verrucosa* but the capsule
 of this pubescent variety; scales larger, protruding out of the flower
 tube, seeds smoother; no other difference

Dr. Greene collected this pubescent form on the Piedmont.
 The lobes of calyx are ovate - lanceolate nearly equally
 the tube of corolla, whole flower and pedicell pubescent.

MISSOURI BOTANICAL GARDEN
 GEORGE ENGELMANN PAPERS



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

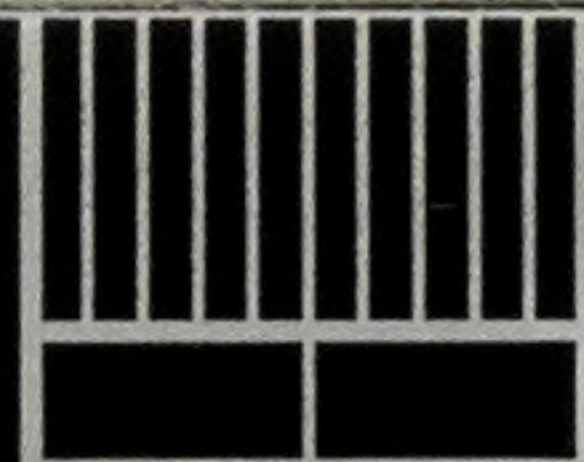
Curat. arvensis macrocalyx

Pl. Tex exsicc. 664

calycis pentagoni ~~lobulati~~ lobis late ovatis obtusis,
tubo corollae superius; laciniis corollae ~~causculis~~
reflexis (^{at inflexis} vix arcuatis) squamis styli

The same form was collected on the Blanco by Wright
both on *Jactia pedunculosa*, in water!

674 Plant. Jeyen, Rocky Mts. ^{& Hb Kew} in hb. Delessert is the
same thing — flowers small; only x large, similar
in structure to that of the *C. nitida* of the Cape; fruit very
large.



0
cm

1

2

3

4

5

6

7

8

9

10

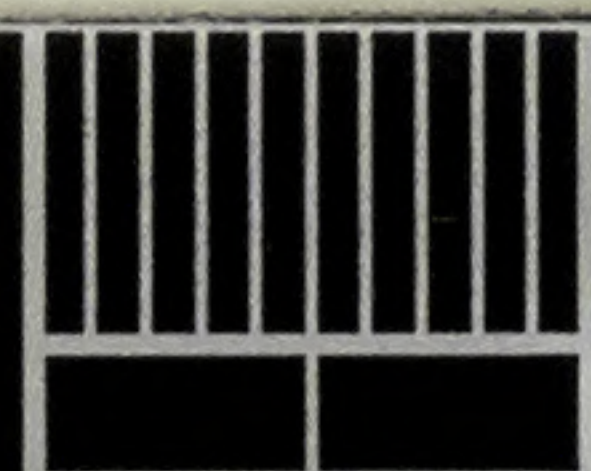
copyright reserved



MISSOURI
BOTANICAL
GARDEN

4764

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

1842

111 114
cc



hilum short, elongated
off perpendicular (or transverse)

Cuscuta anovensis Beyer.
pentagon 8
Virginia



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

4765

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

v. 65



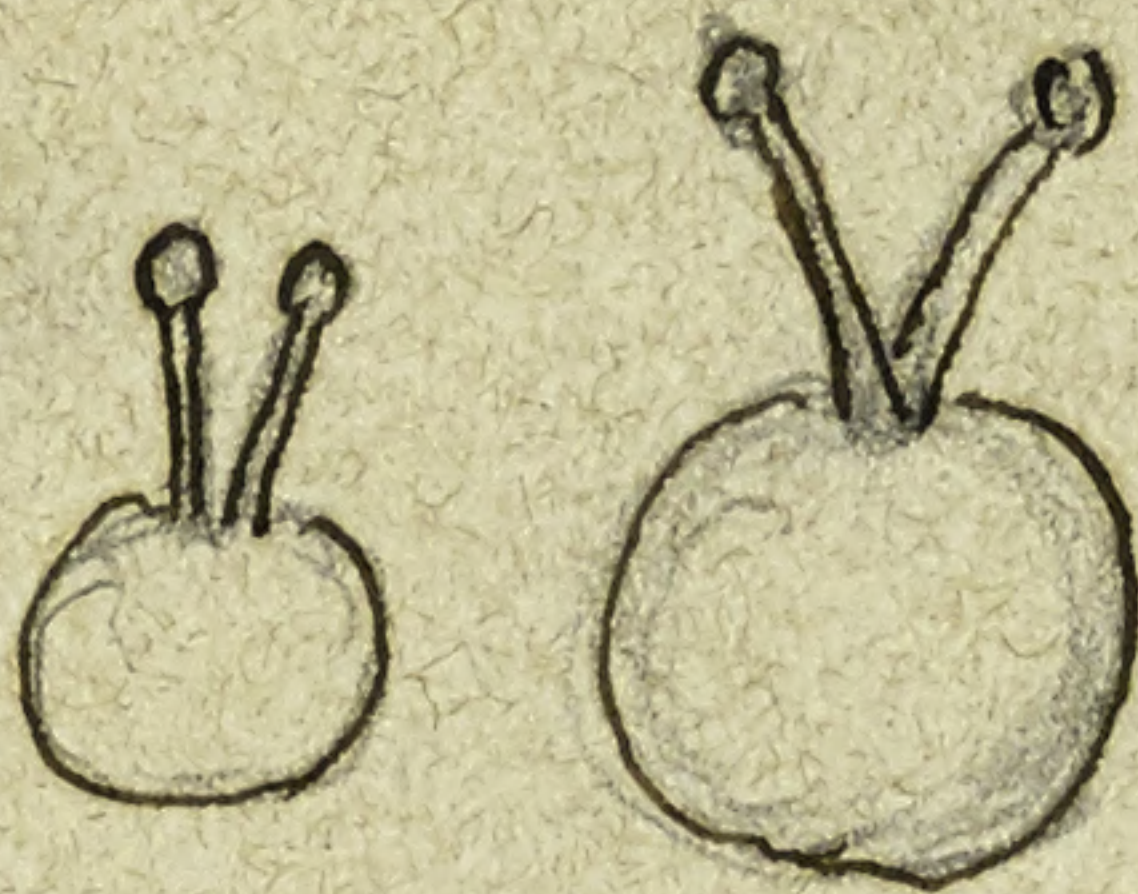
stigma.



0.8



1.00

*Curat. globulifera* n. sp.Brasil: Eschscholtz
in Herb. Ledebour.comp. 65. *Gymnura*

1.22



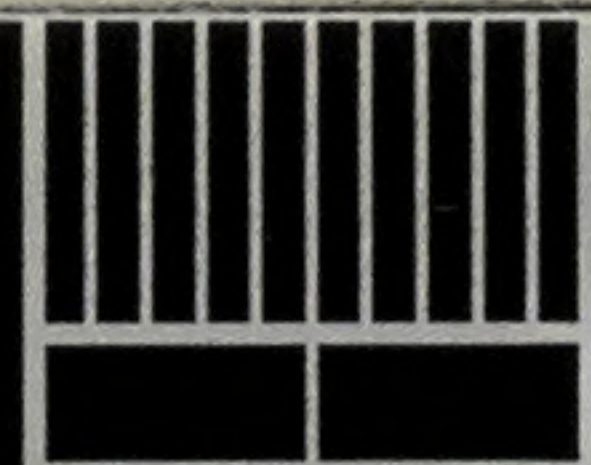
1.55



0.7

seed smooth!
not quite ripe

Caule filiformi
 floribus globosis glomeratis, brevissime
 pedunculatis; calycis campanulati lobis
 lobis ovato-obovatis obtusis corollae
 campanulatae tubo superantibus; laciniis
 ovato-lanceolatis acutis, erectis, demum
 patulis reflexisque, tubo aequantibus;
~~filamentis~~ ^{staminibus} brevibus; antheris ovatis filamentis
 aequantibus, squamis medio adnatis
 longe fimbriatis tubo exsertentibus; stylis
 ovario globoso aequalibus, vix exsertis,
 stigmatibus capitatis, stylis paulo crassioribus
 (non rito capitatis) capsula depresso, baccata, corollae basi adhaerente,
 seminibus levibus.



0

1

2

3

4

5

6

7

8

9

10

cm

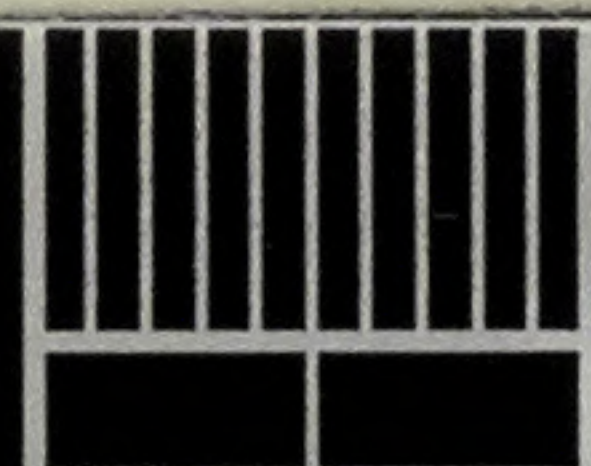
copyright reserved

MISSOURI
BOTANICAL
GARDEN

Flower about 1 li long; sepals about 1 li high
and 1/2 li broad; seed (unripe) 3/4 li long, smooth!

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

4766



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Cuscuta p. 493

Cuscuta ~~obtusiflora~~
var. *Cordifera*

Fezogl Cordofan

fl. Oct. Nov.

leg. Figari

visit 1844

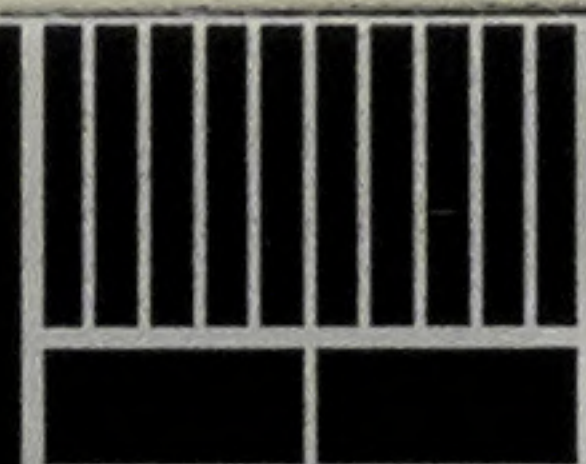
Ex Hb. Mus. Florentini
1858.

This is *C. obtusiflora*, var. *acutiflora*,
but distinguished by the large
somewhat ^{caninate} calyx, lobes connate above the
middle, stamens and styles
very short, scales short,
2 parted, seeds large, flat,
oblong, like transverse



0.6

-0.7



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

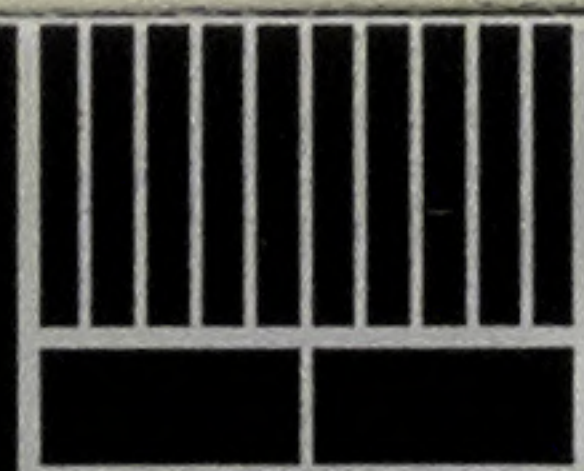


MISSOURI
BOTANICAL
GARDEN

45 C. Sonoriensis n. sp. Sonora, Wright 1627 (& prev. 529)

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

46 C. xanthochortos Martius! (in Prov. St. Petri
austulii, Brasilis)
Porto Alegre, Rio Grande de San Pedro
leg. Peter Jaannes de St. Barbara



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN